

WHAT IS CLAIMED IS:

1 1. A main control unit for a home network system, the main control unit comprising:
2 a communication interface communicating with at least one device;
3 a wireless interface communicating wirelessly with a remote control unit, the remote
4 control unit being separately located from the main control unit; and
5 a controller receiving control signals from the remote control unit through said wireless
6 interface, said controller controlling the at least one device through said communication interface
7 in dependence upon the control signals.

1 2. The main control unit of claim 1, said communication interface performing the
2 communicating with the at least one device through at least one selected from among a wireless
3 network and a wire network.

1 3. The main control unit of claim 1, said wireless interface communicating with the
2 remote control unit through a wireless local area network.

1 4. The main control unit of claim 1, with the main control unit corresponding to a set-
2 top-box.

1 5. The main control unit of claim 1, with said communication interface corresponding
2 to at least one selected from among a wireless local area network interface, an Institute of
3 Electrical and Electronics Engineers 1394 interface, a Home Phone Network Alliance interface,

4 and a power line communication interface.

1 6. The main control unit of claim 1, with said controller receiving a control result
2 signal from the at least one device through said communication interface, and transmitting the
3 control result signal to the remote control unit through said wireless interface.

1 7. A remote control unit for a home network system, the remote control unit
2 comprising:

3 a wireless interface communicating wirelessly with a main control unit;

4 a command input unit inputting a command to control at least one device in communication
5 with the main control unit; and

6 a controller transmitting a wireless control signal to the main control unit through said
7 wireless interface to control the at least one device in dependence upon the command inputted at
8 said command input unit.

1 8. The remote control unit of claim 7, further comprising:

2 an infrared interface performing infrared communication with the at least one device when
3 the at least one device is within a predetermined distance of the remote control unit, said controller
4 transmitting an infrared control signal corresponding to the command to the at least one device
5 through said infrared interface.

1 9. The remote control unit of claim 7, further comprising:

2 a display unit displaying screen information for controlling the at least one device, said

3 controller providing the screen information to said display unit in a form of a graphical user
4 interface.

1 10. The remote control unit of claim 7, with said command input unit including a
2 keypad.

1 11. The remote control unit of claim 7, with said command input unit including a touch
2 sensitive screen.

1 12. The remote control unit of claim 7, with said controller receiving a first control
2 result signal of the at least one device from the main control unit in response to the wireless control
3 signal, said controller sensing whether the command was properly executed, the sensing being
4 performed in dependence upon the first control result signal.

1 13. The remote control unit of claim 12, further comprising:
2 an infrared interface performing infrared communication with the at least one device when
3 the at least one device is within a predetermined distance of the remote control unit, said controller
4 transmitting an infrared control signal corresponding to the command to the at least one device
5 through said infrared interface, said controller receiving a second control result signal of the at
6 least one device from the at least one device through said infrared interface in response to the
7 infrared control signal, said controller sensing whether the command was properly executed, the
8 sensing being performed in dependence upon the second control result signal.

1 14. The remote control unit of claim 13, with said controller waiting to receive the
2 second control result signal from the at least one device through said infrared interface for a
3 predetermined quantity of time, said controller receiving the second control result signal from the
4 main control unit through said wireless interface when the second control result signal is not
5 received by said controller through said infrared interface before the predetermined quantity of
6 time elapses, said controller sensing whether the command was properly executed, the sensing
7 being performed in dependence upon the second control result signal.

1 15. The remote control unit of claim 13, with said controller waiting to receive the
2 second control result signal from the at least one device through said infrared interface for a
3 predetermined quantity of time, said controller transmitting a control result request signal to the
4 main control unit through said wireless interface when the second control result signal is not
5 received by said controller through said infrared interface before the predetermined quantity of
6 time elapses, said controller receiving the second control result signal from the main control unit
7 through said wireless interface, said controller sensing whether the command was properly
8 executed, the sensing being performed in dependence upon the second control result signal.

1 16. A home network system, comprising:
2 a remote control unit, comprising:
3 a first wireless interface communicating wirelessly;
4 a command input unit inputting a command to control at least one device; and
5 a first controller wirelessly transmitting a control signal through said first wireless
6 interface, the control signal corresponding to the command; and

7 a main control unit being separately located from said remote control unit, said main
8 control unit comprising:

9 a communication interface communicating with the at least one device;

10 a second wireless interface communicating wirelessly with said first wireless
11 interface, said second wireless interface receiving the control signal from said first wireless
12 interface; and

13 a second controller controlling the at least one device through said communication
14 interface in dependence upon the control signal received at said second wireless interface.

1 17. The home network system of claim 16, said communication interface performing
2 the communicating with the at least one device through at least one selected from among a wireless
3 network and a wire network, said second controller receiving a control result signal from the at
4 least one device through said communication interface, and transmitting the control result signal
5 to said remote control unit through said second wireless interface.

1 18. The home network system of claim 16, with said communication interface
2 corresponding to at least one selected from among a wireless local area network interface, an
3 Institute of Electrical and Electronics Engineers 1394 interface, a Home Phone Network Alliance
4 interface, and a power line communication interface.

1 19. The home network system of claim 16, said remote control unit further comprising:
2 an infrared interface performing infrared communication with the at least one device when
3 the at least one device is within a predetermined distance of said remote control unit, said first

4 controller transmitting an infrared control signal corresponding to the command to the at least one
5 device through said infrared interface, said first controller receiving a control result signal of the
6 at least one device from the at least one device through said infrared interface in response to the
7 infrared control signal, said first controller sensing whether the command was properly executed,
8 the sensing being performed in dependence upon the control result signal.

1 20. The home network system of claim 19, with said first controller waiting to receive
2 the control result signal from the at least one device through said infrared interface for a
3 predetermined quantity of time, said first controller receiving the control result signal from said
4 main control unit through said first wireless interface when the control result signal is not received
5 by said first controller through said infrared interface before the predetermined quantity of time
6 elapses, said first controller sensing whether the command was properly executed, the sensing
7 being performed in dependence upon the control result signal.